

## TECHNICAL DATA SHEET

# SylWrap CR Corrosion Protective Wrap



### DESCRIPTION

Protect metal piles and steel structures in harsh and aggressive environments using SylWrap CR water-activated fibreglass wrap. SylWrap CR is the only water-activated wrap to incorporate highly effective corrosion inhibitors to prevent substrate corrosion. The cured wrap sets hard to provide a permanent, impact-resistant protective layer.

SylWrap CR is extremely easy to use in the field, requiring minimal training - simply remove from the sealed pouch, dip in water and wrap. Because it is water-activated, SylWrap CR can be applied underwater without activation - ideal for protecting and reinforcing existing structures in a marine environment, such as pier supports and underwater piles.

SylWrap CR is available in a variety of sizes, depending upon the diameter of the framework. On bigger diameters, larger sized wraps are used on straight lengths and smaller sizes can be used at complex joints where two or more members meet at a difficult angle.

SylWrap CR is also used for pipe protection and reinforcement of cracks and leaks in pipework in high pressure and high temperature situations (up to 300°C). It requires no mixing, it is easy to use, and repaired items can be returned to service in less than thirty minutes.



### CORROSION & WEAR PROTECTION

**Anti-Corrosion Protection:** Protect metal piles, steel structures, pipes and concrete pillars from environmental and salt water corrosion.  
**Wear Protection:** Gravel and sand plants, quarries, sugar mills and grain hoppers and coal chutes. Protects pipes and metal parts against abrasive wear.

### APPLYING SYLWRAP CR

Apply SylWrap CR with a 50% overlap to achieve 4 - 6 layers in total (2 - 3 wraps).

### TECHNICAL DATA

**Working time:** . . . . . 2 - 5 minutes, dependent upon temperature of water and pipework  
**Cured material life:** . . . . . 10 - 20 years, dependent upon repair quality, repair thickness, condition of pipe, environmental conditions, pipe temperature etc. Consult Sylmasta for further information and design life for specific applications.  
**Initial cure time:** . . . . . 7-10 minutes  
**Functional cure:** . . . . . 30-45 minutes  
**Full cure (maximum properties)** . . . . . 24 hours  
**Salt Spray Resistance (ASTM B117-16)** . . . 1000h (4 layers)  
**Shore D hardness:** . . . . . 70  
**Tensile strength** . . . . . 250MPa  
**Coefficient of thermal expansion:** . . . . .  $7.1 \times 10^{-5} / ^\circ\text{C}$  (SylWrap composite wrap)  
**Service conditions:**  
**Max. service temperature:** . . . . . 300°C / 570°F (thermal stability up to 300°C from lab testing)  
**Leak Pressure resistance:** . . . . . 50 bar (725 psi), depending on size of pipe and leak (hole requires epoxy filler first) (tested on 50mm pipe with 10mm hole).  
**Chemical resistance:** . . . . . Acetone, ammonia, sulphuric acid (30%), ethyl alcohol, mineral spirits, gasoline, MEK, toluene, diesel, hydrochloric acid, Varsol, ethylene glycol, crude oil, hydraulic oil (test period of 40 days).  
**Colour:** . . . . . Black

### SIZES

Product Code	Dimensions	Pipe Diameter	Wrapped Length (4 layers)
SYL312HD	75mm x 3.6m	50mm	0.4m
SYL433HD	100mm x 10.0m	100mm	0.8m
SYL633HD	150mm x 10.0m	150mm	0.8m
SYL866HD	200mm x 20.0m	450mm	0.8m
SYL1266HD	300mm x 20.0m	600mm	0.8m

### STORAGE

Sylmasta SylWrap CR should be stored unopened in its original foil packaging in cool, dry conditions. Under such conditions it will have a shelf life of at least 24 months from date of manufacture.

### HEALTH & SAFETY IN USE

Plastic gloves should be worn to avoid unnecessary skin contact with the uncured material. For further health and safety information please refer to the relevant Safety Data Sheet.

*Sylmasta and its agents cannot assume liability or responsibility for results obtained in the use of its products by persons whose methods are outside or beyond our control. It is the user's responsibility to determine the suitability of any of the products and methods of use or preparation prior to use mentioned in our literature and furthermore the users responsibility to observe and adopt such precautions as may be advisable for the protection of personnel and property in the handling and use of any of our products.*